

OM nucleic - nucleic search, using sw model

Run on: April 28, 2008, 12:09:18 ; Search time 4 Seconds  
(without alignment)  
18.921 Million cell updates/secTitle: us-10-664-422a-65  
Perfect score: 9110.8  
Sequence: 1 accat agagt gaat ct caga..... aaat tat at aaggt ggct aa 9112Scoring table: IDENTIFY\_NUC  
Gapop 10.0, Gapext 0.5

Searched: 1 seqs, 4153 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : af035685.gb\_pr:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	4084	44.8	4153	1	AF035685	ACCESSION: AF035685
c 2	30.6	0.3	4153	1	AF035685	ACCESSION: AF035685

## ALIGNMENTS

RESULT 1  
AF035685  
LOCUS AF035685 4153 bp mRNA linear PRI 10-AUG-1998  
DEFINITION Homo sapiens voltage-gated sodium channel, subtype III (SCN3A) mRNA, alternatively spliced neonatal isoform partial cds.  
ACCESSION AF035685  
VERSION AF035685.1 GI:2665781  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorhini; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 4153)  
AUTHORS Lu, C.M. and Brown, G.B.  
TITLE Isolation of a human-brain sodium channel gene encoding two

10664422-65\_vs\_AF035685.txt  
isoforms of the subtype III alpha-subunit  
J. Mol. Neurosci. 10 (1), 67-70 (1998)  
JOURNAL PUBMED 9589372  
REFERENCE 2 (bases 1 to 4153)  
AUTHORS Lu, C.-M. and Brown, G.B.  
TITLE Direct Submission  
JOURNAL Submitted (24-NOV-1997) Psychiatry and Behavioral Neurobiology,  
University of Alabama at Birmingham 1720 7th Ave. South, Sparks  
Qrr., Room 1075, Birmingham AL 35294-0017, USA  
FEATURES Location/Qualifiers  
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/sex="female"  
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/dev\_stage="15-yr-old"  
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CCS 55. .>4153  
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FTGI YTFESLI KI LVRGFLEDFTFLRPMWMLDFSVI VMVYTFVSLGNVSALRTF  
RVLRLAKTI SVI PGLKTI VGALI QSVKKLSDMV LTVFQLSVFALI GLQLFMGNLKNK  
CLQMPSPDSAFETNTTSYFNIGTMDSNIGTFVNVMTSTFNWKNDI GDDSHFVYLDGQKDP  
LLGNGSDAGQCOPEGYI CVKAGRNPNYGYTSFDTFSWAFSLFRLMTCQYWNEL YQLT  
LRAAGKTYTI FVFLVI FLGSFYLVNLI LAVVAMAYEEQNATLEAEQKEAEFGQMLE  
QLKKQCEEAQAVAAASASRDFSGI GLGELLESSSEASKLSSKSAKEVNRNRRKPRQ  
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GTTTTEVKKRRLSSYQI SIMELEDSSGGRQAVSI ASI LTNTEELLESRRQKQPCWY  
RFANFLI WOODAWLVKVKHLVNL I VMPPFVDLAI TI CI VLNTLFMAVEHYMPTEGFS  
SVLTVGNLVTFTGI FTAEM/LKI I AMPDYFYFQEGWNI FDGI I VSLSLMELGLSNVEGL  
SVLRSFRLRVFKLAKSWPLNML I KI I GNSVGALGNLTLVLA I VFI FAVVGMLFG  
KSYKECVCKI NDDCTLPRWHNDFFHSFLI VFRVLQGEW ETMDQCEVAGQTMCLI V  
FMLVMI GNLVVLNLFLLALLSSFSNDLAATDQNEIMNLIQI AVGRMQGI DYVKNK  
MRECFQKAFRRPKVI EI HEGNKI DQSMNNNTGI EI SKALNYLRDNGITTSVGTGSS  
VEKYVI DENDYMSFI NNPSLTVTVPI AVGESDFENLNTTEFSSESELEESKEKLNATS  
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RKTGYSI VEHNVFETFI VFM LLSSGALAFEDI YI EORKTI KTMLEYADKVFTYI FI L  
EMLLKWYWGQTYFTNAVCRDLFLI VDVSLVSLVANALGYSELGAI KSLRTLRLALRP  
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Query Match 44.8% Score 4084; DB 1; Length 4153;  
Best Local Similarity 99.0% Pred. No. 0;  
Matches 4106; Conservative 2; M smatches 38; Indels 0; Gaps 0;

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Qy 640 AGGCACTGTTGGTAACCCAGGAOCTGAAAGCTTCGGCTTTTTACTAGAGAACTCTCTTG 699  
 Db 62 AGGCACTGTTGGTAACCCAGGAOCTGAAAGCTTCGGCTTTTTACTAGAGAACTCTCTTG 121

Qy 700 CTGCTATCGAAAAAGTGCTGCAGAAAGAGAAAGCCAAAGAGCCAAAAAGGAACAAGATA 759  
 Db 122 CTGCTATCGAAAAAGTGCTGCAGAAAGAGAAAGCCAAAGAGCCAAAAAGGAACAAGATA 181

Qy 760 ATGATGATGAGAACAAACAAAGCCAAATAGTGACTTGGAGCTGGAAAGAACCTTCAT 819  
 Db 182 ATGATGATGAGAACAAACAAAGCCAAATAGTGACTTGGAGCTGGAAAGAACCTTCAT 241

Qy 820 TTATTTATGGAGACATTCCTCCAGAGATGGTGTGAGAGCCOCTGGAGACCTGGATCCCT 879  
 Db 242 TTATTTATGGAGACATTCCTCCAGAGATGGTGTGAGAGCCOCTGGAGACCTGGATCCCT 301

Qy 880 ACTATATCAATAAGAAAACTTTTATAGTAATGAATAAGGAAAGGCAATTTCCGATTCA 939  
 Db 302 ACTATATCAATAAGAAAACTTTTATAGTAATGAATAAGGAAAGGCAATTTCCGATTCA 361

Qy 940 GTGCCACCTCTGCCTTGTATATTTAACTCCACTAAACCTGTTAGGAAATTTGCTABSA 999  
 Db 362 GTGCCACCTCTGCCTTGTATATTTAACTCCACTAAACCTGTTAGGAAATTTGCTATCA 421

Qy 1000 AGATTTTGGTACATTCCTTATTCAGCATGCTTATCATGTGCACTATTTTGACCAACTGTG 1059  
 Db 422 AGATTTTGGTACATTCCTTATTCAGCATGCTTATCATGTGCACTATTTTGACCAACTGTG 481

Qy 1060 TATTTATGACCTTGAGCAACCTCTGACTGGACAAAGAAATGTAGAGTACACATTCCTG 1119  
 Db 482 TATTTATGACCTTGAGCAACCTCTGACTGGACAAAGAAATGTAGAGTACACATTCCTG 541

Qy 1120 GAATCTATACCTTTGAGTCACCTTATAAAAATCTTGCAAGAGGGTTTTGCTTGAAGATT 1179  
 Db 542 GAATCTATACCTTTGAGTCACCTTATAAAAATCTTGCAAGAGGGTTTTGCTTGAAGATT 601

Qy 1180 TTAAGTTTCTTGATGATCCATGGAACCTGGCTGGATTTGAGTGTGATGTCATGTCATG 1239  
 Db 602 TTAAGTTTCTTGATGATCCATGGAACCTGGCTGGATTTGAGTGTGATGTCATGTCATG 661

Qy 1240 TGACAGAGTTTGTGGAOCTGGGCAATGTCTCAGCGTTGAGAACATTGAGAGTCTCCGAG 1299  
 Db 662 TAACAGAAATTTGTAGGCTAGGCAATGTTTCAAGCTTCAAGTCTTGAGAG 721

Qy 1300 CACTGAAACAATTTGAGTCATTCAGGTTTAAAGACCAATTTGCGGGGCCCTGATCCAGT 1359  
 Db 722 CACTGAAACAATTTGAGTCATTCAGGTTTAAAGACCAATTTGCGGGGCCCTGATCCAGT 781

Qy 1360 CGGTAAAGAAAGCTTTCTGATGTGATGATCTGACTGTGTTCTGTCTGAGCGTGTGCTG 1419  
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Qy 1420 TCATTGGGCTGCAGCTGTTTCATGGGCAATCTGAGGAATAAATGTTTGCAGTGGCCCCAA 1479  
 Db 842 TCATTGGGCTGCAGCTGTTTCATGGGCAATCTGAGGAATAAATGTTTGCAGTGGCCCCAA 901

Qy 1480 GCGATTCTGCTTTTGAACCAACACCACTTCTACTTTTAAAGGCAACATGGAATCAAATG 1539  
 Db 902 GCGATTCTGCTTTTGAACCAACACCACTTCTACTTTTAAAGGCAACATGGAATCAAATG 961

Qy	1540	GGACATTTTGTTAATGTAAACAATGAGCACATTTAACTGGAAGGATTACATTGGAGATGACA	1599
Db	962	GGACATTTTGTTAATGTAAACAATGAGCACATTTAACTGGAAGGATAACATTGGAGATGACA	1021
Qy	1600	GTCACTTTTATGTTTTGGATGGGCAAAAAGAOOCTTTACTCTGTGGAAATGGCTCAGATG	1659
Db	1022	GTCACTTTTATGTTTTGGATGGGCAAAAAGAOOCTTTACTCTGTGGAAATGGTTCAGATG	1081
Qy	1660	CAGGCCAGTGTGCAGAAAGGATACATCTGTGTGAAGGCTGGTGGAAAOCCCAACTATGGCT	1719
Db	1082	CAGGCCAGTGTGCAGAAAGGATACATCTGTGTGAAGGCTGGTGGAAAOCCCAACTATGGCT	1141
Qy	1720	ACACAAGCTTTGACAOCTTTAGCTGGGCTTTCTGTCTCTATTTGCACTCATGACTCAAG	1779
Db	1142	ACACAAGCTTTGACAOCTTTAGCTGGGCTTTCTGTCTCTATTTGCACTCATGACTCAAG	1201
Qy	1780	ACTACTGGGAAAATCTTTAOCAGTTGACATTACGTGCTGCTGGGAAAACATACATGATAT	1839
Db	1202	ACTACTGGGAAAATCTTTAOCAGTTGACATTACGTGCTGCTGGGAAAACATACACGATAT	1261
Qy	1840	TTTTTGTCOCTGGTCATTTTCTTGGGCTCATTTTATTTGGTGAATTTGATCCTGGCTGTGG	1899
Db	1262	TTTTTGTCOCTGGTCATTTTCTTGGGCTCATTTTATTTGGTGAATTTGATCCTGGCTGTGG	1321
Qy	1900	TGGCCATGGCCTATGAGGGCAGAAATCAGGCCAOCTTGGAGAAGCAGAAACAAAAGAGG	1959
Db	1322	TGGCCATGGCCTATGAGGGCAGAAATCAGGCCAOCTTGGAGAAGCAGAAACAAAAGAGG	1381
Qy	1960	CGAATTTTCAGCAGATGCTCGAACAGCTTAAAAAGCAACAGGAAGAGCTCAGGCAGTTG	2019
Db	1382	CGAATTTTCAGCAGATGCTCGAACAGCTTAAAAAGCAACAGGAAGAGCTCAGGCAGTTG	1441
Qy	2020	CGGCAGCATCAGCTGCTTCAAGAGATTTCAAGTGAATAGGTGGGTTAGGAGAGCTGTTGG	2079
Db	1442	CGGCAGCATCAGCTGCTTCAAGAGATTTCAAGTGAATAGGTGGGTTAGGAGAGCTGTTGG	1501
Qy	2080	AAAGTTCCTCAGAAGCATCAAAGTTGAGTTCAAAAAGTGCTAAAGAAATGGAGGAAOOGAA	2139
Db	1502	AAAGTTCCTCAGAAGCATCAAAGTTGAGTTCAAAAAGTGCTAAAGAAATGGAGGAAOOGAA	1561
Qy	2140	GGAGAAGAAAGAGACAGAGAGCAOCTTGAAGGAAACAAAGAGGAGAGAGACAGCT	2199
Db	1562	GGAGAAGAAAGAGACAGAGAGCAOCTTGAAGGAAACAAAGAGGAGAGAGACAGCT	1621
Qy	2200	TTCCCAAAATCOGAATCTGAAGACAGGTCAAAAAGAGCAGCTTCTTTTCTCCATGGATG	2259
Db	1622	TTCCCAAAATCOGAATCTGAAGACAGGTCAAAAAGAGCAGCTTCTTTTCTCCATGGATG	1681
Qy	2260	GAAACAGACTGAOCAGTGACAAAAAATTTCTGCTCCOCTCATCAGTCTCTCTTGAGTATCC	2319
Db	1682	GAAACAGACTGAOCAGTGACAAAAAATTTCTGCTCCOCTCATCAGTCTCTCTTGAGTATCC	1741
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Db	1742	GTGGCTCCCTGTTTTCCCAAGACGCAATAGCAAAACAAAGCATTTTCAGTTTCAGAGGTC	1801
Qy	2380	GGGCAAAAGGATGTTGGATCTGAAATGACTTTGCTGATGATGAACACAGCACATTTGAAG	2439
Db	1802	GGGCAAAAGGATGTTGGATCTGAAATGACTTTGCTGATGATGAACACAGCACATTTGAAG	1861
Qy	2440	ACAGCGAAGCAGGAGAGACTCACTGTTTTGTGGCGCAGACATGGAGAGCGAGCGCAACA	2499

Db 1862 ACAGCGAAACGAGGAGAGACTCACTGTTTGAGCGGCACAGACATGGAGAGGCGACGCAACA 1921  
 Qy 2500 GTAACGGCAACCACTGAAACGGAGTCAGAAAGAGAGGGTTAAGCTCTTACCAGATTT 2559  
 Db 1922 GTAACGGCAACCACTGAAACGGAGTCAGAAAGAGAGGGTTAAGTCTTACCAGATTT 1981  
 Qy 2560 CAATGGAGATGCTGGAGGATTCTCTGGAAAGCAAGAGCGGTGAGCATAGCCAGCATTC 2619  
 Db 1982 CAATGGAGATGCTGGAGGATTCTCTGGAAAGCAAGAGCGGTGAGCATAGCCAGCATTC 2041  
 Qy 2620 TGACCAACACAATGGAAGAACTTGAAGAATCTAGACAGAAATGTCCGCCATGCTGGTATA 2679  
 Db 2042 TGACCAACACAATGGAAGAACTTGAAGAATCTAGACAGAAATGTCCGCCATGCTGGTATA 2101  
 Qy 2680 GATTTGCCAATGTGTCTTGATCTGGGACTGCTGTGATGCATGGTTAAAAGTAAAACATC 2739  
 Db 2102 GATTTGCCAATGTGTCTTGATCTGGGACTGCTGTGATGCATGGTTAAAAGTAAAACATC 2161  
 Qy 2740 TTGTGAATTTAATTGTTATGGATCCATTTGTTGATCTTGCCATCACTATTTGCATTGTCT 2799  
 Db 2162 TTGTGAATTTAATTGTTATGGATCCATTTGTTGATCTTGCCATCACTATTTGCATTGTCT 2221  
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 Db 3602 AGCGAAAGACTATCAAAACCATGCTAGAATATGCTGACAAAGTCTTTACCTATATATTCA 3661  
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 Db 3722 GGTGCOG3CTAGATTCTTGATOGTTGATGTTCTTTGGTTAGCOCTGGTAGCCAATGCTC 3781

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Qy	4360	TTGGCTACTCAGAACTGGTGGCATCAAATCATTACGGACATTAAAGAGCTTTAAGACCTC	4419
Db	3782	TTGGCTACTCAGAACTGGTGGCATCAAATCATTACGGACATTAAAGAGCTTTAAGACCTC	3841
Qy	4420	TAAGAGCCTTATCCCGGTTTGAAGGCATGAGGGTGGTTGTGAATGCTCTTGTGGAGCAA	4479
Db	3842	TAAGAGCCTTATCCCGGTTTGAAGGCATGAGGGTGGTTGTGAATGCTCTTGTGGAGCAA	3901
Qy	4480	TTCCCTCTATCATGAATGTGCTGTGGTCTGTCTCATCTTCTGGTTGATCTTTAGCATCA	4539
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Qy	4540	TGGGTGTGAATTTGTTTCTGGCAAGTCTAACCAGTGTGTTAACATGACAACGGGTAAACA	4599
Db	3962	TGGGTGTGAATTTGTTTCTGGCAAGTCTAACCAGTGTGTTAACATGACAACGGGTAAACA	4021
Qy	4600	TGTTTGACATTAGTGATGTTAACAAATTTGAGTGACTGTGAGGCTCTTGGCAAGCAAGCTC	4659
Db	4022	TGTTTGACATTAGTGATGTTAACAAATTTGAGTGACTGTGAGGCTCTTGGCAAGCAAGCTC	4081
Qy	4660	GGTGGAAAAAGCTGAAAGTAAACTTTGATAATGTTGGGGCTGGCTATCTTGCACCTGCTTC	4719
Db	4082	GGTGGAAAAAGCTGAAAGTAAACTTTGATAATGTTGGGGCTGGCTATCTTGCACCTGCTTC	4141
Qy	4720	AAGTGG	4725
Db	4142	AAGTGG	4147

RESULT 2  
 AF035685/ c 4153 bp mRNA linear PRI 10-AUG-1998  
 LOCUS Homo sapiens voltage-gated sodium channel, subtype III (SCN3A)  
 DEFINITION mRNA, alternatively spliced neonatal isoform partial cds.

ACCESSION AF035685  
 VERSION AF035685.1 GI:2665781

KEYWORDS  
 SOURCE  
 ORGANISM Homo sapiens (human)  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Haplorhini;  
 Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 4153)  
 AUTHORS Lu, C. M. and Brown, G. B.  
 TITLE Isolation of a human-brain sodium channel gene encoding two  
 isoforms of the subtype III alpha-subunit

JOURNAL J. Mol. Neurosci. 10 (1), 67-70 (1998)  
 PUBMED 9589372  
 REFERENCE 2 (bases 1 to 4153)  
 AUTHORS Lu, C.-M. and Brown, G. B.  
 TITLE Direct Submission  
 JOURNAL Submitted (24-NOV-1997) Psychiatry and Behavioral Neurobiology,  
 University of Alabama at Birmingham, 1720 7th Ave. South, Sparks  
 Ctr., Room 1075, Birmingham, AL 35294-0017, USA

FEATURES  
 source Location/Qualifiers  
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